3P087074-2B

DAIKIN

Interface Adapter for Room Airconditioner <KRP928A2S>

Installation Manual

Safety Precautions

- Read these Safety Precautions carefully to ensure correct installation.

This manual classifies precautions into WARNING and CAUTION.

⚠ **WARNING** : Failure to follow WARNING is very likely to result in such grave consequences as death or serious injury.

⚠ **CAUTION** : Failure to follow CAUTION may result in serious injury or property damage, and in certain circumstances, may result in a grave consequence.

Be sure to follow all the precautions below ; they are all important for ensuring safety.

⚠ WARNING

- **Installation should be left to the dealer or another qualified professional.**
  Improper installation by yourself may cause malfunction, electrical shock, or fire.
- **Install the set according to the instructions given in this manual.**
  Incomplete or improper installation may cause malfunction,electrical shock,or fire.
- **Be sure to use the standard attachments or the genuine parts.**
  Use of other parts may cause malfunction,electrical shock,or fire.
- **Disconnect power to the connected equipment before starting installation.**
  Failure to do so may cause malfunction,electrical shock,or fire.

⚠ CAUTION

- **An earth leakage circuit breaker should be installed.**
  If the breaker is not installed,electrical shock may occur.
- **Do not install the set in a location where there is danger of exposure to inflammable gas.**
  Gas accumulated around the unit at the worst may cause fire.
- **To prevent damage due to electrostatic discharge,touch your hand to a nearby metal object (doorknob,aluminum sash,etc.) to discharge static electricity from your body before touching this kit.**
  Static electricity can damage this kit.
- **Lay this cable separately from other power cables to avoid external electrical noises.**

- After installation is complete,test the operation of the PCB set to check for problems, and explain how to use the set to the end-user.

1 . Overview , Features and Compatible Models

This kit is an interface necessary for the connection of central control equipment to a room air conditioner, and can operate and monitor the things mentioned below in combination of central control equipment. This kit copes with the room air conditioner with HA terminal S21.

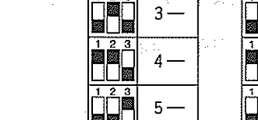
- Operation, stop, changeover of operation mode and setting temperature are carried out from a central control equipment. (18~32°C in cooling, 14~28°C in heating, no blow mode)
- Operation state, existence of abnormality and abnormal phenomena are monitored from a central control equipment.
- A central control equipment, a card key restricts the operation by a remote controller such as starting, stop, operation mode changeover and setting temperature.
- Zone control through a central control equipment.
- When power failure occurs, it returns to the operation before the power failure.
- Monitoring the operation and stop through devices complied with HA JEM-A (Tele-con kit).

This kit does not support the following controls.

- Group control (control of plural indoor units by one remote controller).
- Monitoring the following items.
  Room temperature/ thermostat condition/ compressor operation state/ indoor fan operation state/electric heater and humidifier operation state.
- Controlling the following items.
  Forced thermostat off/ filter sign display and reset/air flow direction and air flow rate/air conditioning charge management.
- Save energy command/Low noise command/"Demand" command.

2. Components

This kit includes the following components. Check to ensure that none of these are missing.

Parts	Q'ty	Parts	Q'ty
Kit assembly PCB is in the housing. 	1	Connection harness with connector	1set
		Mounting screws	3pcs.
		Binding band	1pc.
		Double-sided tape	2pcs.
		Installation manual	1set

3. Initial Setting

Put initial setting of each switch on the PCB after the casing of this kit is opened. (Set it to ■)

①Settings for overseas and Japanese models(SW3)

The setting is required for room air conditioners because the temperature setting in Auto Mode differs between overseas models and Japanese ones.

SW3	Setting
GLO ■ JPN	When connecting to Japanese models.(Delivery setting) Auto Mode cannot be selected from central control equipment. When Auto Mode is selected using the remote controller, Auto cooling or Auto heating is displayed at the central remote controller. (At this time,the temperature display is fixed at 25°C)
GLO ■ JPN	When connecting to overseas models. Auto Mode can be selected from central control equipment. When Auto Mode is selected using the remote controller, Auto Cooling or Auto Heating is displayed on the central remote controller.

②Setting group numbers (SW1,SW2-1to 3)

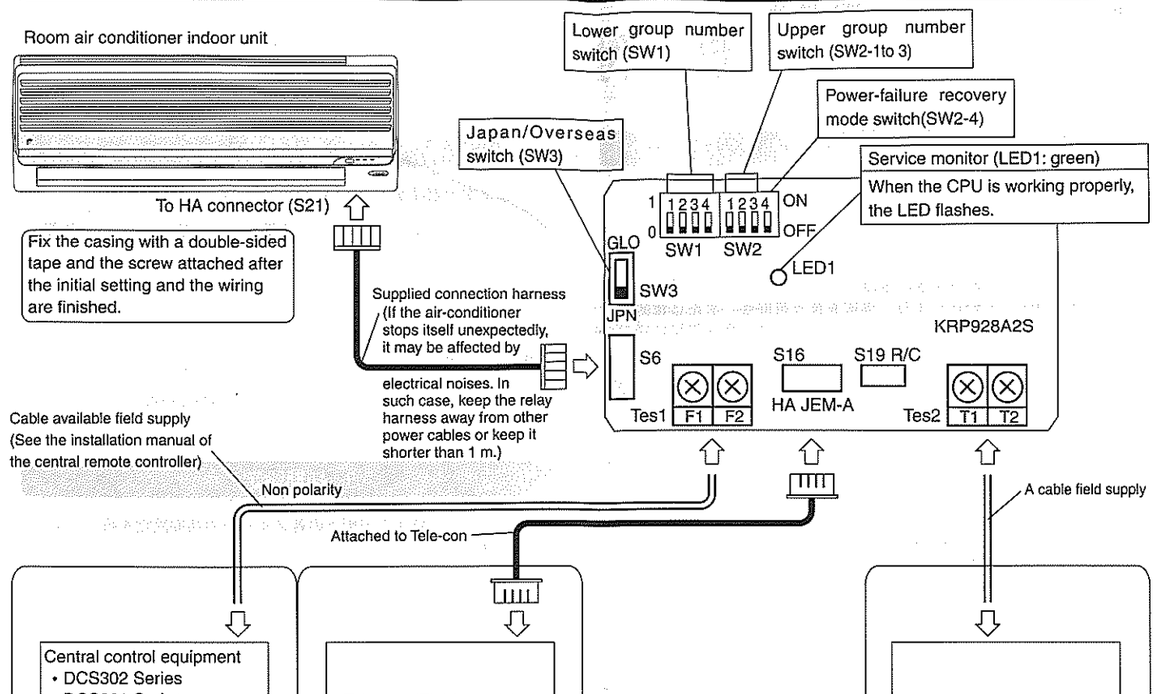
Set it as shown in the table below. The same number should not be set for two units or more.

SW2 setting	Upper groupNO.	SW1 setting	Lower groupNO.	SW1 setting	Lower groupNO.
1 ■ 0	1 —	1 ■ 0	0 0	0 8	
	2 —		0 1	0 9	
	3 —		0 2	1 0	
	4 —		0 3	1 1	
	5 —		0 4	1 2	
	6 —		0 5	1 3	
	7 —		0 6	1 4	
	8 —		0 7	1 5	

③Auto restart ON/OFF(SW2-4)

In case that the switch is ON, the unit returns to the original operation before power failure when the power failure is canceled. In case that the switch is OFF, the unit is secure to stop when the power failure is canceled. When an auto restart ON/OFF jumper is provided in the indoor unit, control from this kit takes priority.
The following status information is stored regardless of on/off state.
(Operation mode, Set temperature, Rejection of remote controller)

4 . Gist of wiring


Room air conditioner indoor unit
To HA connector (S21)
Fix the casing with a double-sided tape and the screw attached after the initial setting and the wiring are finished.
Lower group number switch (SW1)
Upper group number switch (SW2-1to 3)
Power-failure recovery mode switch(SW2-4)
Japan/Overseas switch (SW3)
Service monitor (LED1: green)
When the CPU is working properly, the LED flashes.
ON
OFF
SW1
SW2
LED1
GLO
SW3
JPN
KRP928A2S
S6
S16
S19 R/C
Tes1
F1
F2
HA JEM-A
Tes2
T1
T2
Supplied connection harness (If the air-conditioner stops itself unexpectedly, it may be affected by electrical noises. In such case, keep the relay harness away from other power cables or keep it shorter than 1 m.)
Cable available field supply (See the installation manual of the central remote controller)
Non polarity
Attached to Tele-con
A cable field supply
Central control equipment
• DCS302 Series
• DCS301 Series
• DCS601 Series
• DST301 Series
KRC65,KRC72,KDC100A10, and KDC101B Series cannot be connected.
• Tele-con (Field supply)
• Card key (Field supply)
Rejection of remote controller at the contact closed.
Acceptance of remote controller at the contact opened.
Stop of air conditioner at the contact from open to close.
No change of the state at the contact from close to open.

In case that a central remote controller is connected

In case that the device coping with HA JEM-A is connected in Japan

In case that a card key is connected

■ Control code

When the central remote controller is used, the operation code and the rejection on remote controller of room air conditioner are as follows.
(The device coping with HA JEM-A is not restricted)

Remote controller operation mode	Tes 2	Control code	Control by remote controller	
			Unified operation, individual operation by central remote controller, or operation controlled by timer	Unified stop, individual stop by central remote controller,or timer stop
ON/OFF control is rejected by remote controller	open	0 1 3	ON/OFF operation,timer setting is not possible	
		10 11	Only air flow and air direction can be set	
Only OFF control is accepted by remote controller	open	2 12~19	Only off operation,air flow and air direction can be set	
Central priority	open	4	Last command takes priority	Only off operation,air flow and air direction can be set
		5	Last command takes priority	ON/OFF operation,timer setting is not possible
Last command priority	open	6 7	Last command takes priority	
Timer operation is accepted by remote controller	open	8	Last command takes priority (only operation controlled by timer)	Only off operation,air flow and air direction can be set
		9	Last command takes priority (only operation controlled by timer)	ON/OFF operation,timer setting is not possible
Forced stop	close	0~19	Not possible	

■ The devices possible to combine are shown below.

	Card key	Device coping with HA JEM-A	Schedule timer	Central controller	Wireless remote controller
Card key	×	○	○	○	○
Device coping with HA JEM-A	○	×	○	○	○
Schedule timer	○	○	×	○	○
Central controller	○	○	○	○	○
Wireless remote controller	○	○	○	○	○